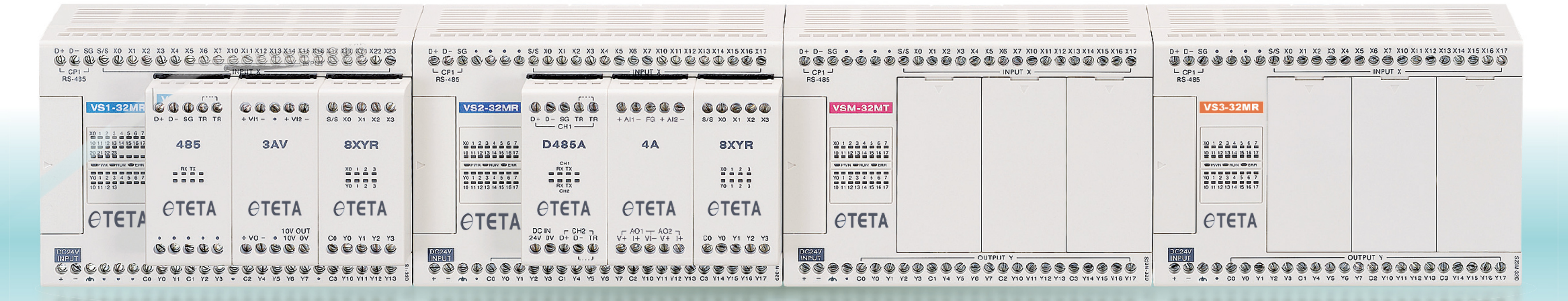
Real **Taiwan Excellent Product**

R & D in Taiwan, Made in Taiwan

TETA ELECTRIC



TETA [NEW GENERATION] VS Series CONTROLLER

More **Effective** • More **Fast** • More **Diverse** • More **Competitive Advantage**

More Effective

The VS Series is base on high performance 32-bit 96 MHz processor, the overall efficiency is 10 times more then the VB or VH series PLC.

The size of project memory is enlarged from 4~16K to 16~64K words, also the number of data registers is greatly increased.

The communication could expand up to 6 ports (USB and CP1~CP5 multi-functional ports), fully support high-level control system.

The 4 pulse out points have various positioning functions. The 8 high-speed inputs provide plenty functions such as external interrupt, hardware / software high-speed counter, pulse capture, period measurement, handwheel...

More Fast

The new processor only takes 0.15μs per basic instruction step, that performance is 2.5 times faster than before. Both the pulse inputs and outputs can reach 1 MHz, more powerful than similar competitor.

By superbly fast USB port to read or write the user project just spends in an instant, 16K Words less than 3 Sec. This progress far exceeds the past.

More Diverse

The VS Series has the VS1 (General), VS2 (Advanced), VSM (Motion Control) and VS3 (High Performance) Main Units. The applicable coverage is from simple to complicated control.

By various Main Units, Modules, Cards, Memory Cards and the modular design to produce a complete and flexible combination.

Remarkable add-on card structure with the DIO, Communication and Special Cards to provide a superb cost-effective, space saving and flexible expansion.

Simple to construct and maintain, this VS Series is the best choice of programmable logic controller.

More Competitive Advantage

The TETA R&D team has accumulated decades of experience for "More diverse combination" and "The most suitable product" design concepts. Carefully selected high quality CPU to develop the excellent and stable VS Series also with highly competitive price.

The VS Series is close to the automation market and demand by flexible combination. Can raise product level with expandability and more competitive.

Item / Series	VS1 General	VS2 Advanced	VSM Motion Control	VS3 High Performance
Process Time of Basic Instruction	0.17μs/Step	0.17μs/Step	0.17μs/Step	0.15μs/Step
Memory Capacity of Project	16K Words	32K Words	32K Words	64K Words
Max. Input/Output Points	128 pt. + 24 (at Exp. Cards)	256 pt. + 24 (at Exp. Cards)	256 pt. + 24 (at Exp. Cards)	512 pt. + 24 (at Exp. Cards)
Programming Port	Built-in 12Mbps high-speed Mini USB port			
Unit Built-In Comm. Port	CP1 (RS-485) provides various communication modes: Computer Link, MODBUS (Master / Slave), CPU Link, Non-protocol...			
Expandable Comm. Port	CP2	CP2 ~ CP3	CP2 ~ CP3	CP2 ~ CP5
Multi-Func. High Speed In	8 points 10 kHz	8 points 50 kHz	4 points 200 kHz* & 4 points 50 kHz	
Pulse Output	4 points (axes) 50 kHz※	4 points (axes) 50 kHz※	4 points (axes) 200 kHz※	
Number of Special Modules	—	8	8	16
Number of Special Cards	1	3	3	3
Function of Expansion Card	EC1 ~ EC3 for the DIO, communication (RS-232, RS-485) or special card (e.g. Analog, Temperature, Inverter Speed Control)			
Function of Memory Card	Maintenance-free user project & large data memory card provides the best subject transplanting method for system maintain			

* For the VSM-28ML-D Line Driver model, its two Hardware High-Speed Counters can count 1 MHz pulses respectively.

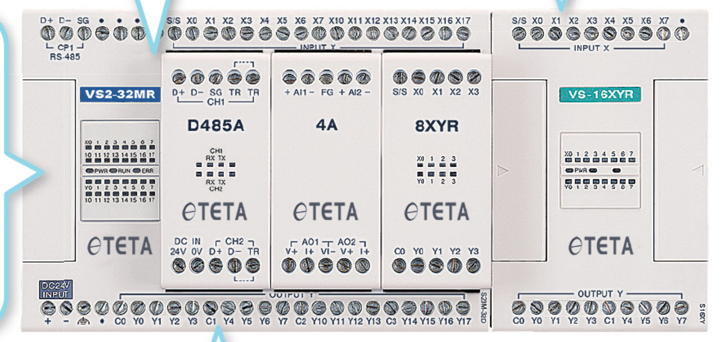
※ Those 4 outputs are available generate 1 MHz pulses individually at the VSM-28-ML-D Line Driver model; 200 kHz at the VSM/VS3's NPN; 50 kHz at the VS1/VS2's NPN or 5 kHz at the PNP Main Unit. Not available in the relay output unit.

Diverse Combination Brings Competitive Advantage

- The simple flexible add-on DIO Expansion Card can avoid waste and save space, thus to make "The most suitable product".
- Various RS-485/232 communication, special function (analog, temperature, etc.) and small number DIO cards to meet expansion needs.

- Diverse 8, 16, 28 & 32-point DIO Expansion Modules provide the most satisfactory I/O expansion.
- The VS2, VSM and VS3 could join the analog input / output and temperature modules up, for accurately measure and control.

No battery required memory card for user project and large data storage; also the Real-Time Clock (RTC) function is vailable.



- The VS Series presents the VS1 General, VS2 Advanced, VSM Motion Control & VS3 High Performance PLCs. Suitable for applications from simple to complex.
- The VS Series offers flexible options: 16K~64K Word project memory, 10~512 I/O points, 2~6 Comm. ports and various special functions (analog, temp....).

More Communication Ports to Meet the Demand of Advanced System

The VS Main Unit built-in the USB programming port and a RS-485 multi-function communication port (CP1). By expansion cards could expand CP2 ~ CP5 multi-function communication ports (RS-232 or RS-485 interface selectable).
Each multi-function communication port could individually appoint for the VS Computer Link, MODBUS, CPU Link, Non-protocol or other mode. The plenty ports can link with HMI, central supervisory system, distributed control system and peripherals to satisfy all kinds of applications in the control.

Multi-Function Memory Card Provides the Best Data Transplant Mechanism

Multi-function memory card adopts no battery required Flash ROM. This card is like a PLC's hard disk to store a user project and large 655,360 Words latched data.
The appropriate user project and relevant data (such as system setting, molding parameters, event records...) are all stored in the card. If the PLC Main Unit got failed, the user can quickly move the card into a new spare unit. With the card, the maintenance work can complete by an ordinary trained worker, not necessary by a professional. It solves the problem of inconvenient maintenance if the controller fails.

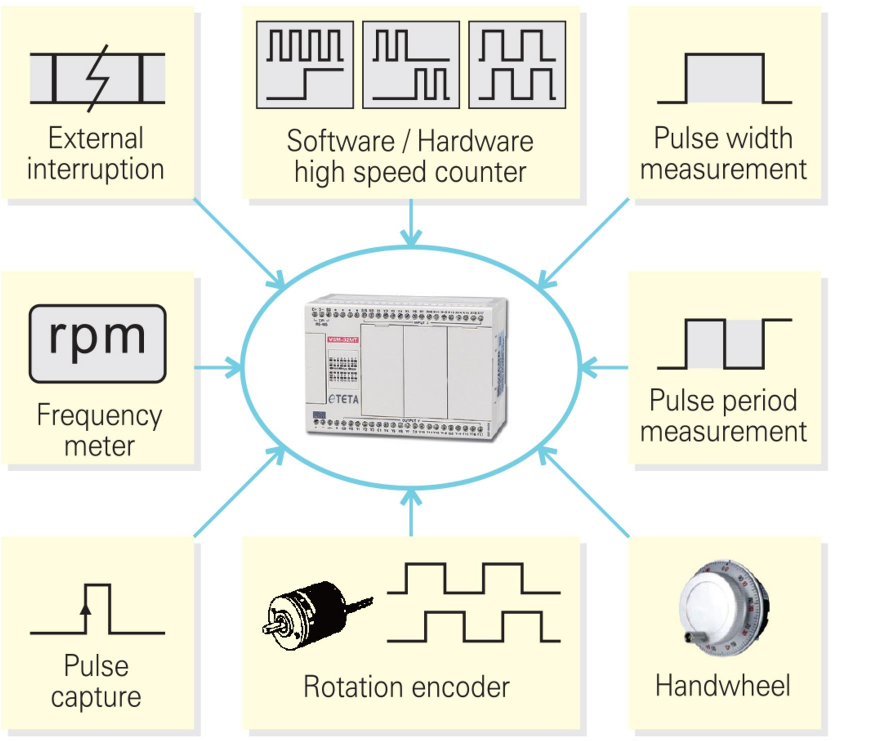
Practical and Various Special Function Cards --- High Cost-Performance Ratio

2 Voltage Input & 1 Voltage Output Brief Card | 4 Analog Input Card | 2 Analog Output Card | 2 Analog Input & 2 Analog Output Card | 3 Isolated Inverter Speed Control Card | 2 Thermocouple Input Card | 4 Thermocouple Input Card | 1 PT-100 RTD Input Card | 2 PT-100 RTD Input Card

Multi-Function High Speed Input

The Main Unit has built-in 8 high-speed inputs (up to 1 MHz) for the external interrupt, pulse capture, frequency meter, pulse measurement, high speed counter, handwheel and other functions, to support various special applications.

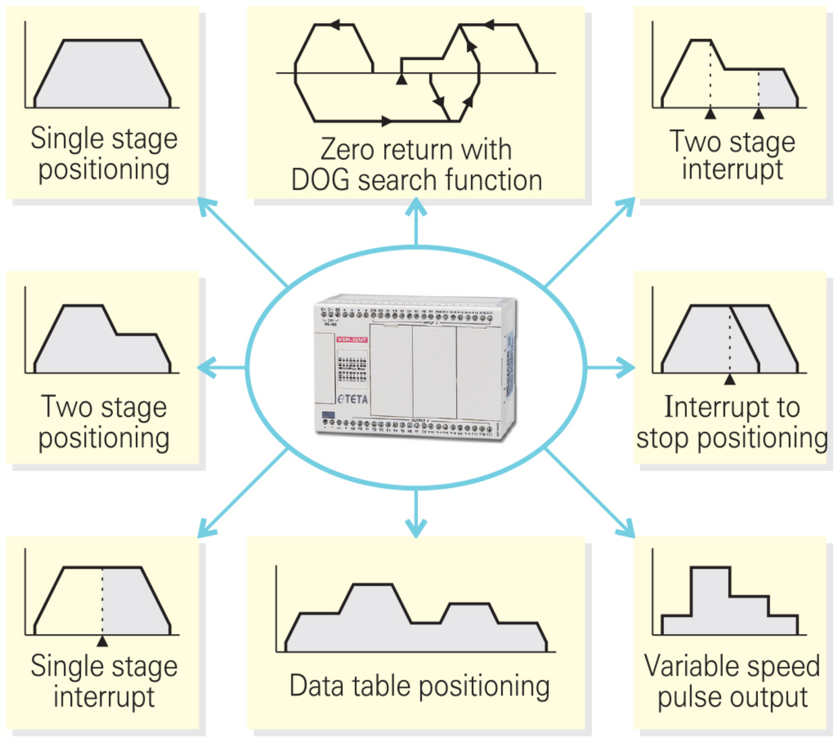
Available become 8 single-phase or 4 A/B-phase counters, furthermore can activate two A/B-phase hardware high speed counters HHSC1 / HHSC2 to improve the system efficiency.



Multi-Function High Speed Position Control

The VSM and VS3 series Main Unit built-in 4 high speed pulse outputs (up to 1 MHz) and various easy to use positioning instructions. Hence, can perform precision positioning control for step or servo motor drivers directly.

The VSM-28ML-D is to meet the requirement of easy connection if the encoders and motor drivers are using the line driver interface.



Specification Table of All the VS Series Main Unit

Item			VS1 Series	VS2 Series	VSM Series	VS3 Series
Operation Control Method			Cyclic Operation by Stored Program			
Programming Language			Ladder Diagram + Sequential Function Chart (SFC) or Ladder Diagram + Step Ladder (STL)			
I/O Control Method			Batch Processing			
Process Time	Basic Instruction		0.17 μs			0.15 μs
	Application Instruction		A few μs ~ Hundreds of μs			
Basic Ins. No. / Application Ins. No.			29 / 168	29 / 170	29 / 170	29 / 208
Project Memory Capacity (Flash ROM)			16K Words	32K Words	32K Words	64K Words
Max. Input / Output Points			128 + 24 (at EC card)	256 + 24 (at EC card)	256 + 24 (at EC card)	512 + 24 (at EC card)
Max. Digital Input / Output	External Input (X)		64 points: X0 ~ X77	128 points: X0 ~ X177	128 points: X0 ~ X177	256 points: X0 ~ X377
	External Output (Y)		64 points: Y0 ~ Y77	128 points: Y0 ~ Y177	128 points: Y0 ~ Y177	256 points: Y0 ~ Y377
Internal Relay	Auxiliary Relay (M)	General	6192 points: M0 ~ M1999, M4000 ~ M8191			
		Latched	2000 points: M2000 ~ M3999			
		Special	512 points: M9000 ~ M9511			
	Step Relay (S)	Initial	10 points: S0 ~ S9			
		General	3086 points: S10 ~ S499, S1500 ~ S4095			
		Latched	900 points: S500 ~ S899, S1000 ~ S1499			
		Annunciator	100 points: S900 ~ S999 (Latched)			
Timer (T)	100ms		200 points: T0 ~ T199 (Timer range: 0.1 ~ 3,276.7 sec.)			
	10ms		46 points: T200 ~ T245 (Timer range: 0.01 ~ 327.67 sec.)			
	1ms (Retentive)		4 points: T246 ~ T249 (Timer range: 0.001 ~ 32.767 sec.)			
	100ms (Retentive)		6 points: T250 ~ T255 (Timer range: 0.1 ~ 3,276.7 sec.)			
	1ms		256 points: T256 ~ T511 (Timer range: 0.001 ~ 32.767 sec.)			
Counter (C)	16-bit Up	General	100 points: C0 ~ C99 (Range: 0 ~ 32,767)			
		Latched	100 points: C100 ~ C199 (Range: 0 ~ 32,767)			
	32-bit Up / Down	General	20 points: C200 ~ C219 (Range: –2,147,483,648 ~ 2,147,483,647)			
		Latched	15 points: C220 ~ C234 (Range: –2,147,483,648 ~ 2,147,483,647)			
Software High Speed Counter (C)	32-bit Up / Down, Latched	1-Phase	11 points: C235 ~ C245 (Range: –2,147,483,648 ~ 2,147,483,647)			
		2-Phase	5 points: C246 ~ C250 (Range: –2,147,483,648 ~ 2,147,483,647)			
		A / B Phase	5 points: C251 ~ C255 (Range: –2,147,483,648 ~ 2,147,483,647)			
Hardware High Speed Counter			2 points: HHSC1 ~ HHSC2 (Range: –2,147,483,648 ~ 2,147,483,647)			
Data Register	General (D)		7000 points: D0 ~ D6999			
	Latched (D)		2000 points: D7000 ~ D8999			
	Special (SD)		512 points: D9000 ~ D9511			
	Index Register (V / Z)		16 points: V0 ~ V7, Z0 ~ Z7			
	Extension Register (R)		10000 points: R0 ~ R9999			24000 points: R0~R23999
Pointer	Mark / Branch Pointer (P)		1024 points: Each pointer can be named by P0 ~ P1023 or 16 characters			
	Table Nickname / Code (Q)		32 points: Each table can be named by Q0 ~ Q31 or 16 characters			
	Interrupt Pointer (I)		21 points: 8 for external interrupt, 3 for timing interrupt and 10 for High Speed Counter interrupt			
	Nest Pointer (N)		8 points: N0 ~ N7			
Numerical System of Constant			Decimal (K), Hexadecimal (H) or Real number (E)			
Comm. Function	Main Unit Built-in Comm. Port	Programming	12Mbps high-speed Mini USB port			
		Multi-Function	CP1 (RS-485) provides Computer Link, MODBUS, CPU Link, Non-protocol and so on			
	Expanded Multi-Function Port		CP2 at the EC1	CP2, CP3 at the EC1		CP2 ~ CP5 at EC1 & EC3
Multi-Function High Speed Input			External Interruption, Hardware / Software High Speed Counter Pulse Capture, Pulse Measurement, Handwheel ...			
			10 kHz × 8 points	50 kHz × 8 points	200 kHz × 4 points + 50 kHz × points ☆	
Pulse Output			50 kHz × 4 points	50 kHz × 4 points	200 kHz × 4 points ☆	
Real Time Clock (Optional)			By installing the VS-MCR Multi-Function Memory Card to get year, month, date, hour, min., sec. & day of week			
Expanded Memory (VS-MC / VS-MCR)			No battery required 16Mb Flash ROM for user project and data-bank (655,360 words) storage			
Type of Expansion Card (EC1 ~ EC3)			DI / DO, communication or special function card (AI, AO, temperature input, inverter speed control, etc.)			
No. of Special Module / Special Card			0 / 1	8 / 3	8 / 3	16 / 3

☆ The VSM-28ML has 1 MHz × 4 (for the HHSC1 & HHSC2) + 50 kHz × 4 Multi-Function High Speed Input points and its Pulse Output has 1 MHz × 4 points.

Product List

Item	Model Name	Main Specification	Dim.
VS1 Series Main Unit	VS1-10M★-D	VS1 Main Unit: 6 DI (DC 24V, X0~X5 10 kHz); 4 DO ★; 16K words project memory; 1 Expansion Card socket; I/O by screw-clamp terminal	A
	VS1-14M★-D	VS1 Main Unit: 8 DI (DC 24V, X0~X7 10 kHz); 6 DO ★; 16K words project memory; 1 Expansion Card socket; I/O by screw-clamp terminal	
	VS1-20M★-D	VS1 Main Unit: 12 DI (DC 24V, X0~X7 10 kHz); 8 DO ★; 16K words project memory; 2 Expansion Card sockets; I/O by screw-clamp terminal	B
	VS1-24M★-D	VS1 Main Unit: 14 DI (DC 24V, X0~X7 10 kHz); 10 DO ★; 16K words project memory; 2 Expansion Card sockets; I/O by screw-clamp terminal	
	VS1-28M★-D	VS1 Main Unit: 16 DI (DC 24V, X0~X7 10 kHz); 12 DO ★; 16K words project memory; 3 Expansion Card sockets; DIO Expansion Module available; I/O by screw-clamp terminal	C
	VS1-32M★-D	VS1 Main Unit: 20 DI (DC 24V, X0~X7 10 kHz); 12 DO ★; 16K words project memory; 3 Expansion Card sockets; DIO Expansion Module available; I/O by screw-clamp terminal	
	VS1-32MT-DI	VS1 Main Unit: 16 DI(DC 24V, X0~X7 10 kHz); 16 DO (100mA NPN transistor, Y0~Y3 50 kHz); 16K words project memory; 3 Expansion Card sockets; DIO Expansion Module available; I/O by IDC connector	E
VS2 Series Main Unit	VS2-24M★-D	VS2 Main Unit: 12 DI (DC 24V, X0~X7 50 kHz); 12 DO ★; 32K words project memory; 2 Expansion Card sockets; DIO Expansion & 8 Special Modules available; I/O by screw-clamp terminal	B
	VS2-32M★-D	VS2 Main Unit: 16 DI (DC 24V, X0~X7 50 kHz); 16 DO ★; 32K words project memory; 3 Expansion Card sockets; DIO Expansion & 8 Special Modules available; I/O by screw-clamp terminal	C
	VS2-32MT-DI	VS2 Main Unit: 16 DI (DC 24V, X0~X7 50 kHz); 16 DO (100mA NPN transistor, Y0~Y3 50 kHz); 32K words project memory; 3 Exp. Card sockets; DIO Exp. & 8 Special Modules available; I/O by IDC connector	E
VSM Series Main Unit	VSM-14MT-D	VSM Main Unit: 8 DI (DC 24V, 4×200 kHz + 4×50 kHz); 6 DO (500mA NPN transistor, Y0~Y3 200 kHz); 32K words project memory; 1 Expansion Card socket; I/O by screw-clamp terminal	A
	VSM-24MT-D	VSM Main Unit: 12 DI (DC 24V, 4×200 kHz + 4×50 kHz); 12 DO (500mA NPN transistor, Y0~Y3 200 kHz); 32K words project memory; 2 Exp. Card sockets; DIO Exp. & 8 Special Modules available; I/O by screw-clamp terminal	B
	VSM-32MT-D	VSM Main Unit: 16 DI (DC 24V, 4×200 kHz + 4×50 kHz); 16 DO (500mA NPN transistor, Y0~Y3 200 kHz); 32K words project memory; 3 Exp. Card sockets; DIO Exp. & 8 Special Modules available; I/O by screw-clamp terminal	C
	VSM-28ML-D	VSM Main Unit: 4 Line Driver DI (for 2 hardware counters up to 1 MHz) + 12 DI (DC 24V, 4×50 kHz & 8 normal); 8 Line Driver DO (4×1 MHz & 4 normal) + 4 DO (500mA NPN transistor); 32K words project memory; 3 Expansion Card sockets; DIO Expansion & 8 Special Modules available; I/O by screw-clamp terminal	
	VSM-32MT-DI	VSM Main Unit: 16 DI (DC 24V, 4×200 kHz + 4×50 kHz); 16 DO (100mA NPN transistor, Y0~Y3 200 kHz); 32K words project memory; 3 Exp. Card sockets; DIO Exp. & 8 Special Modules available; I/O by IDC connector	E
VS3 Series Main Unit	VS3-32M★-D	VS3 Main Unit: 16 DI (DC 24V, 4×200 kHz + 4×50 kHz); 16 DO ★(Y0~Y3 200 kHz at NPN transistor model); 64K words project memory; 3 Exp. Card sockets; DIO Exp. & 16 Special Modules available; I/O by screw-clamp terminal	C
	VS3-32MT-DI	VS3 Main Unit: 16 DI (DC 24V, 4×200 kHz + 4×50 kHz); 16 DO (100mA NPN transistor, Y0~Y3 200 kHz); 64K words project memory; 3 Exp. Card sockets; DIO Exp. & 16 Special Modules available; I/O by IDC connector	E
DIO Expansion Module	VS-8X	DI Expansion Module: 8 DI DC 24V, Sink/Source selectable; input by screw-clamp terminal	D
	VS-16X	DI Expansion Module: 16 DI DC 24V, Sink/Source selectable; input by screw-clamp terminal	
	VS-8Y★	DO Expansion Module: 8 DO ★; output by screw-clamp terminal	
	VS-16Y★	DO Expansion Module: 16 DO ★; output by screw-clamp terminal	
	VS-8XY★	DIO Expansion Module: 4 DI DC 24V, Sink/Source selectable; 4 DO ★; I/O by screw-clamp terminal	
	VS-16XY★	DIO Expansion Module: 8 DI DC 24V, Sink/Source selectable; 8 DO ★; I/O by screw-clamp terminal	
	VS-28XYR	DIO Expansion Module: 16 DI DC 24V, Sink/Source selectable; 12 DO (2A Relay); I/O by screw-clamp terminal	B
	VS-32XY★	DIO Expansion Module: 16 DI DC 24V, Sink/Source selectable; 16 DO ★; I/O by screw-clamp terminal	
	VS-16X-I	DI Expansion Module: 16 DI DC 24V, Sink/Source selectable; input by IDC connector	F
	VS-16YT-I	DO Expansion Module: 16 DO (100mA NPN transistor); output by IDC connector	
	VS-16XYT-I	DIO Expansion Module: 8 DI DC 24V, Sink/Source selectable; 8 DO (100mA NPN transistor); I/O by IDC connector	
	VS-32XYT-I	DIO Exp. Modul: 16 DI DC 24V, Sink/Source selectable; 16 DO (100mA NPN transistor); I/O by IDC connector	
Power Module	VS-PSD	Power Repeater Module: DC 24V input converts to DC 5V 500mA + DC 12V 800mA outputs for Modules' inner use	D
Special Function Module	VS-4AD	Analog Input Module: 4 channel (16-bit) inputs, each channel could input either –10~+10V, 4~20mA or –20~+20mA; isolated; with an accurate calibration DC 10V output	
	VS-2DA	Analog Output Module: 2 channel (16-bit) outputs, each channel could output either –10~+10V, 4~20mA or –20~+20mA; isolated	
	VS-3A	Analog I/O Module: 2 channel (16-bit) inputs + 1 channel (16-bit) output, each channel could input/output either –10~+10V, 4~20mA or –20~+20mA; isolated; with an accurate calibration DC 10V output	
	VS-6A	Analog I/O Module: 4 channel (16-bit) inputs + 2 channel (16-bit) outputs, each channel could input/output either –10~+10V, 4~20mA or –20~+20mA; isolated; with an accurate calibration DC 10V output	
	VS-4TC	Thermocouple Temperature Input Module: 4 channel (K, J, R, S, T, E, B or N type thermocouple) inputs, 0.1℃ / 0.1℉ resolution; isolated	
	VS-8TC	Thermocouple Temperature Input Module: 8 channel (K, J, R, S, T, E, B or N type thermocouple) inputs, 0.1℃ / 0.1℉ resolution; isolated	
	VS-2PT	PT-100 Temperature Input Module: 2 channel (3-wire PT-100) inputs, 0.1℃ / 0.1℉ resolution; isolated	
	VS-4PT	PT-100 Temperature Input Module: 4 channel (3-wire PT-100) inputs, 0.1℃ / 0.1℉ resolution; isolated	

Product List

Item	Model Name	Main Specification	Dim.
DIO Expansion Card	VS-4X-EC	DI Expansion Card: 4 DI DC 24V, Sink/Source selectable; input by screw-clamp terminal	G
	VS-8X-EC	DI Expansion Card: 8 DI DC 24V, Sink/Source selectable; input by screw-clamp terminal	
	VS-4Y★-EC	DO Expansion Card: 4 DO ★; output by screw-clamp terminal	
	VS-8YT-EC	DO Expansion Card: 8 DO (DC 24V, 300mA NPN transistor); output by screw-clamp terminal	
	VS-4XY★-EC	DIO Expansion Card: 2 DI DC 24V, Sink/Source selectable; 2 DO ★; I/O by screw-clamp terminal	
	VS-8XY★-EC	DIO Expansion Card: 4 DI DC 24V, Sink/Source selectable; 4 DO ★; I/O by screw-clamp terminal	
	VS-8XI-EC	DI Expansion Card: 8 DI DC 24V, Sink/Source selectable; input by IDC connector	I
	VS-8YTI-EC	DO Expansion Card: 8 DO (DC 24V, 100mA NPN transistor); output by IDC connector	
Comm. Expansion Card	VS-485-EC	RS-485 Communication Expansion Card: One non-isolated RS-485 port with TX / RX indicators; dist. 50m Max.	G
	VS-485A-EC	RS-485 Communication Expansion Card: One isolated RS-485 port with TX / RX indicators; dist. 1000m Max.	
	VS-D485-EC	RS-485 Communication Expansion Card: Dual non-isolated RS-485 ports with TX / RX indicators; dist. 50m Max.	
	VS-D485A-EC	RS-485 Communication Expansion Card: Dual isolated RS-485 ports with TX / RX indicators; dist. 1000m Max.	
	VS-D232-EC	RS-232C Communication Expansion Card: Dual non-isolated RS-232 ports with TX / RX indicators; dist. 15m Max.; wiring by the RX / TX / SG terminals	
	VS-D52A-EC	RS-485 + RS-232C Communication Expansion Card: One isolated RS-485 port (1000m) & one non-isolated RS-232C port (15m), both with TX / RX indicators and wiring by terminals	
Special Function Card	VS-3AV-EC	Brief Voltage I/O Card: 2 channel (0 ~ 10V, 12-bit) inputs; 1 channel (0 ~ 10V, 10-bit) output; with an accurate calibration DC 10V output; non-isolated	H
	VS-4AD-EC	Analog Input Card: 4 channel (12-bit) inputs, each channel could input either –10~+10V, 4~20mA or –20~+20mA; non-isolated	
	VS-2DA-EC	Analog Output Card: 2 channel (12-bit) outputs, each channel could output either –10~+10V, 4~20mA or –20~+20mA; non-isolated	
	VS-4A-EC	Analog I/O Card: 2 channel (12-bit) inputs + 2 channel (12-bit) outputs, each channel could input/output either –10~+10V, 4~20mA or –20~+20mA; non-isolated	
	VS-3ISC-EC	Inverter Speed Control Card: 3 channel (0.1% resolution) voltage outputs; totally isolated for each channel	
	VS-2TC-EC	Thermocouple Temperature Input Card: 2 channel (K, J, R, S, T, E, B or N type thermocouple) inputs, 0.2~0.3℃ resolution; non-isolated	
	VS-4TC-EC	Thermocouple Temperature Input Card: 4 channel (K, J, R, S, T, E, B or N type thermocouple) inputs, 0.2~0.3℃ resolution; non-isolated	
	VS-1PT-EC	PT-100 Temperature Input Card: 1 channel (3-wire PT-100) input, 0.1℃ resolution; non-isolated	
	VS-2PT-EC	PT-100 Temperature Input Card: 2 channel (3-wire PT-100) inputs, 0.1℃ resolution; non-isolated	
Memory Card	VS-MC	Memory Card: No battery required 16Mb Flash ROM for user's project and data-bank (655,360 words) storage	—
	VS-MCR	Multi-Function Memory Card: 16Mb Flash ROM for user's project and data-bank (655,360 words) storage; with the Real Time Clock function	
Connection Cable	VSPC-200A	USB Reinforced Cable: Between a PLC's Mini USB Programming Port and computer's A-type USB; length: 200 cm	
	VSEC-050	Extension Cable: For the Expansion Slot of the VS series; length: 50 cm	
	VSEC-100	Extension Cable: For the Expansion Slot of the VS series; length: 100 cm	
IDC Connector Related Accessory	VB-T8R	8 Relays Output Module: 16A 1c contact relays; with varistors and relay sockets	
	VB-T8RS	8 Relays Output Module: 5A 1a contact relays; with 5mm pluggable screw-clamp terminals	
	VB-T8M	8 MOSFETs Output Module: 2A current source MOSFETs; with flyback diodes	
	VB-T16M	16 MOSFETs Output Module: 2A current source MOSFETs; with flyback diodes	
	VB-T16TB	16 Points Adapted Board: Transfer between the IDC connectors and screw-clamp terminals	
	VBIDC-□□□	IDC Ribbon Cable: Assembled with two 10-pin female connectors; length□□□:50/100/150/200/250/300 cm	
	VBIW-□□□	IDC's Dispersed Wires: An IDC female connector with 10 rainbow 22 AWG wires; length□□□:50/100/200/300 cm	
	VBIDC-FC100	10-pin Ribbon Cable: Flat, Grey, 28 AWG; length: 100 foot	
	VBIDC-FC250	10-pin Ribbon Cable: Flat, Grey, 28 AWG; length: 250 foot	
	VBIDC-HD20	10-pin IDC Connector: Female connector with strain relief, Grey, 20 pcs.	
	VBIDC-HD100	10-pin IDC Connector: Female connector with strain relief, Grey, 100 pcs.	
	VB-HT214	Crimping tool: Merge the IDC connector and ribbon cable	

★ Selectable output:

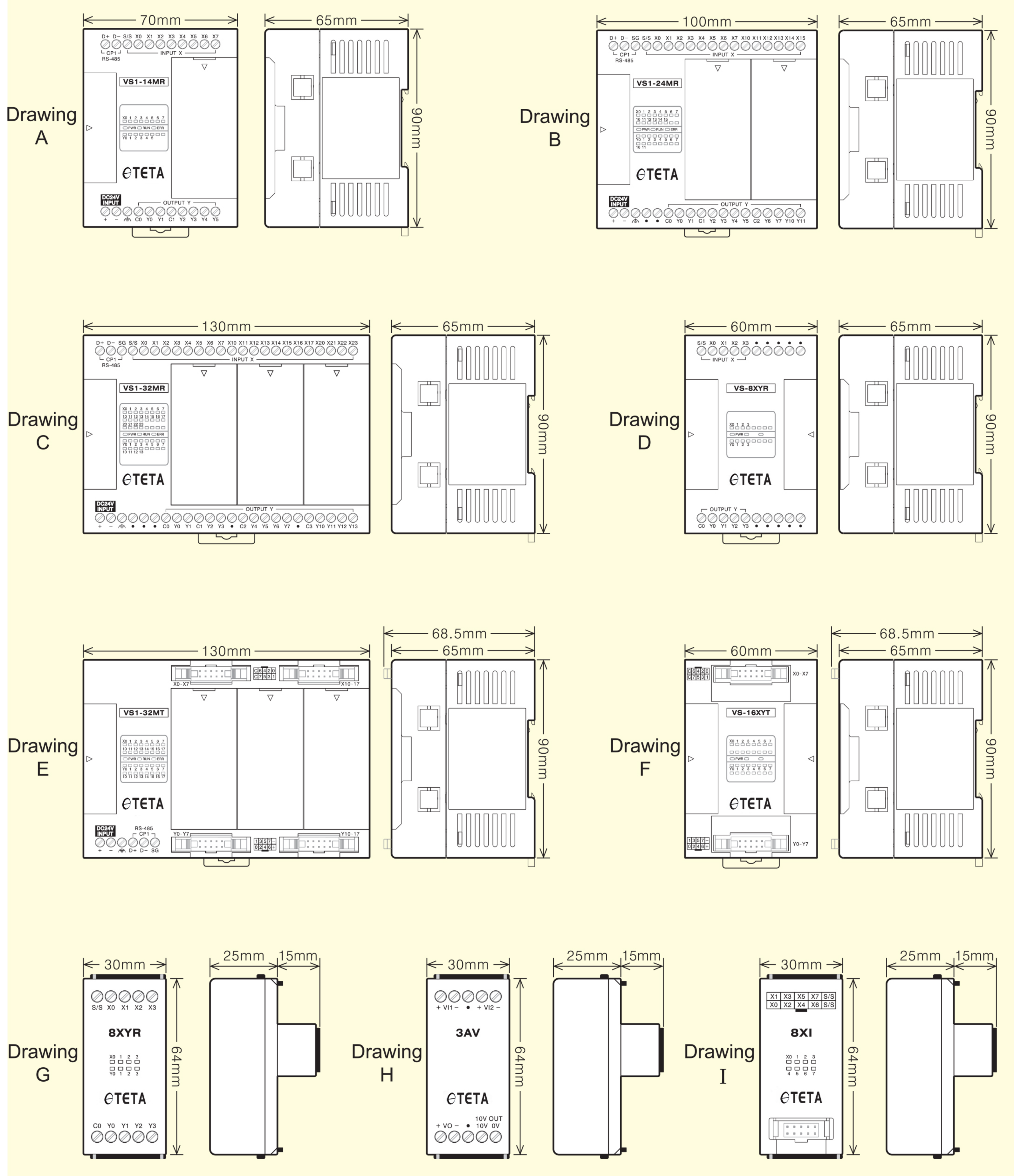
R: 2A Relay

T: 0.5A NPN transistor, Y0~Y3 can generate pulses (VS1 / VS2: 50kHz; VSM / VS3: 200kHz); EC cards are 0.3A only

P: 0.5A PNP transistor, Y0~Y3 can generate 5kHz pulses

All Main Unit, Special Module, VS-PSD & IDC's output are required DC 24V -15~+20% power input

Dimension



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